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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/845,803	04/30/2001	Eldad Zeira	I-2-162.1US	3229
²⁴³⁷⁴ VOLPE AND I	7590 05/22/200 KOENIG, P.C.	8	EXAM	INER
DEPT. ICC			JAIN, RAJ K	
30 SOUTH 17T	ZA, SUITE 1600 TH STREET		ART UNIT	PAPER NUMBER
PHILADELPH	PHILADELPHIA, PA 19103			
			MAIL DATE	DELIVERY MODE
			05/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	09/845,803	ZEIRA ET AL.				
Office Action Summary	Examiner	Art Unit				
	RAJ K. JAIN	2616				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet v	vith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a relif NO period for reply is specified above, the maximum statutory perions Failure to reply within the set or extended period for reply will, by status Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	1.136(a). In no event, however, may a eply within the statutory minimum of the will apply and will expire SIX (6) MC ute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 25	February 2008.					
	nis action is non-final.					
3) Since this application is in condition for allow	ance except for formal ma	tters, prosecution as to the merits is				
closed in accordance with the practice under	Ex parte Quayle, 1935 C.	O. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>31-36 and 40</u> is/are pending in the	application.					
4a) Of the above claim(s) is/are withdr	rawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>31-36 and 40</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examir	ner.					
b)						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	- · · ·	, ,				
11)☐ The oath or declaration is objected to by the I		-				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in a iority documents have bee eau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) \[\sum \text{Notice of References Cited (PTO-892)} \]	4) ☐ Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date	5) Notice of 6) Other:	Informal Patent Application (PTO-152)				

DETAILED ACTION

Claim Objections

Claim 40 is objected to because of the following informalities: Remove "channels" in line 5. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 31-36 and 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miya et al (US 200200161) in view of Endo et al (US006035210A).

Regarding claims 31, 34 and 40 Miya discloses a means, method and apparatus for downlink power control for use in a spread spectrum time division communication system having time slots for communication (see Fig. 1, paras 0009 and 0020) comprising:

-at a user equipment, receiving a CCTrCH over a plurality of time slots and transmitting a single power command to a base station in response to a signal to interference ratio of the received CCTrCH (see Figs 2 and 5, paras 0009, 0058-0060, the mobile stations receives the signal via the control channel from the base station and transmits a TPC (power control) signal to the base station based on SIR measurements from the previous time slot. Figs. 2 & 5, disclose transmission and reception intervals of

a mobile station in a communications system with plurality of time slots being either transmitted or received.);

-a transmission power level for each time slot of the plurality of time slots is set individually in response to the interference power measurement for that time slot and the single power command (see Figs 2 and 5, paras 0009, 0058-0060, the mobile station performs the SIR measurements for each time slot from a plurality of time slots individually and transmits a TPC signal (Di) back to the base station to increase or decrease downlink power transmission in the next time interval sequence).

Miya fails to disclose the user equipment sending interference power measurements to the base station.

Endo discloses the user equipment sending interference power measurements to the base station (see col 2 lines 17-22, col 10 lines 39-53).

Sending interference power measurements to the base station improves reception qualities for all users within a cell by minimizing the transmit power from the base station to the mobiles and therefore reducing overall network interference to each end user.

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Endo within Miya of sending interference power measurements to the base station so as to improve reception qualities for all users within a cell by minimizing the transmit power from the base station to the mobiles and therefore reducing overall network interference to each end user.

Regarding claims 32, and 35 Miya discloses the use of time slots/frames for transmission of power control (see para 0009, 0058-0060 and Fig 5). Miya discloses the TDD frame format by time dividing the radio frequency and representing the timeslots with transmission timing "i" where i=0,1,.... representing the individual slots. The mobile station (MS) power control is based on the SIR measurements carried out by the MS for each timeslot "i".

Regarding claims 33, and 36 Miya discloses calculating interference power measurements for each timeslot based on the downlink reception data at the mobile station (see paras 0025, 0058-0060, Fig 5).

Response to Arguments

Applicant's arguments filed February 25, 2008 have been fully considered but they are not persuasive.

With respect to claims 31-36 and 40, Applicant contends "Miya fails to disclose use of a single power command for the CCTrCH which includes a plurality of time slots".

The Examiner respectfully disagrees, the applicant describes within its specifications (para 7) the correlation of TPC with CCTrCH, that is the TPC adjusts the transmit power level in **all** time slots (emphasis added to all), which is well known in the arts. Further Miya discloses power measurements per time slot (see Figs 2 & 5, paras 9, 58-60), the mobile station performs the SIR measurements for each time slot from a plurality of time slots individually and transmits a TPC signal (Di) back to the base

station to increase or decrease downlink power transmission in the next time interval sequence to all mobiles accordingly.

Further, Endo was cited for disclosing the transmission of interference measurements since the recited claims of applicant include interference measurements. Sending interference power measurements to the base station improves reception qualities for all users within a cell by minimizing the transmit power from the base station to the mobiles and therefore reducing overall network interference to each end user.

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of Endo within Miya of sending interference power measurements to the base station so as to improve reception qualities for all users within a cell by minimizing the transmit power from the base station to the mobiles and therefore reducing overall network interference to each end user.

Thus since Miya and Endo disclose all limitations either alone or in combination therefore the rejection to claims 31-36 and 40 is sustained.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RAJ K. JAIN whose telephone number is (571)272-3145. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Raj K. Jain/

Primary Examiner, Art Unit 2616

May 21, 2008